

# INTERNATIONAL SEARCH REPORT

Int'l Application No  
PCT/IB2004/051831

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 G11B27/034 G11B7/007 G11B7/085 G11B7/28

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 G11B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ, WPI Data

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 0 715 301 A (SONY CORPORATION) 5 June 1996 (1996-06-05) column 3, line 17 - column 3, line 30 column 4, line 1 - column 5, line 28 column 9, line 55 - column 11, line 7	1,3-5
A	-----	2,6-9
X	US 6 347 353 B1 (HIRAYAMA HIROSHI ET AL) 12 February 2002 (2002-02-12) column 2, line 8 - column 2, line 41 column 3, line 50 - column 4, line 64 column 6, line 18 - column 6, line 22	1,3-5
A	-----	2,6-9
	-/--	

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

### \* Special categories of cited documents :

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the International filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the International filing date but later than the priority date claimed

- \*T\* later document published after the International filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- \*G\* document member of the same patent family

Date of the actual completion of the International search

12 May 2005

Date of mailing of the international search report

23/05/2005

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  
Fax (+31-70) 340-3016

Authorized officer

Brezmes Alonso, F

## INTERNATIONAL SEARCH REPORT

Inter al Application No  
PCT/IB2004/051831

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 5 881 032 A (ITO ET AL) 9 March 1999 (1999-03-09) column 2, line 15 - column 2, line 22 column 2, line 44 - column 3, line 12 column 4, line 42 - column 4, line 57 column 8, line 55 - column 9, line 10 column 9, line 34 - column 9, line 50 -----	1-9

## INTERNATIONAL SEARCH REPORT

 International Application No  
 PCT/IB2004/051831

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
EP 0715301	A	05-06-1996	AT 189076 T 15-02-2000
			AU 3914895 A 06-06-1996
			BR 9505603 A 04-11-1997
			CA 2164081 A1 31-05-1996
			CN 1135632 A 13-11-1996
			DE 69514630 D1 24-02-2000
			DE 69514630 T2 31-05-2000
			EP 0715301 A2 05-06-1996
			ES 2140628 T3 01-03-2000
			JP 8212561 A 20-08-1996
			US 6424614 B1 23-07-2002
US 6347353	B1	12-02-2002	JP 2871534 B2 17-03-1999
			JP 9007308 A 10-01-1997
			US 6076135 A 13-06-2000
			CN 1280367 A ,C 17-01-2001
			CN 1334561 A 06-02-2002
			CN 1146586 A ,C 02-04-1997
			CN 1229233 A 22-09-1999
			DE 19625396 A1 09-01-1997
			KR 233201 B1 01-12-1999
			US 6154806 A 28-11-2000
			US 6233649 B1 15-05-2001
			US 6332174 B1 18-12-2001
			US 6324618 B1 27-11-2001
			US 5966721 A 12-10-1999
US 5881032	A	09-03-1999	CN 1247622 A ,C 15-03-2000
			DE 69609076 D1 03-08-2000
			DE 69609076 T2 08-03-2001
			EP 0856186 A1 05-08-1998
			HK 1015516 A1 09-03-2001
			WO 9715050 A1 24-04-1997
			JP 2000503446 T 21-03-2000
			JP 2004171773 A 17-06-2004